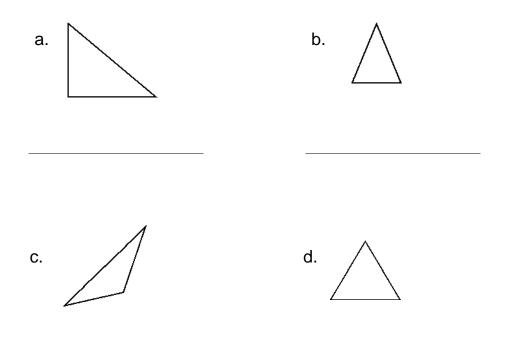
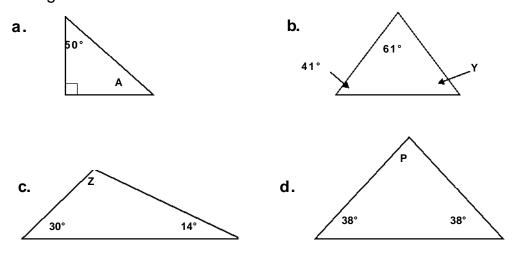
Geometry: Triangles 165

1. Identify the different types of triangles as: equilateral, isosceles, scalene, right angles



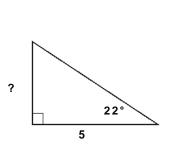
2. When machining parts if you know two angles you can determine the correct angle for the third. Solve for the given variable.

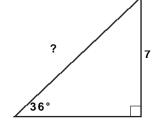


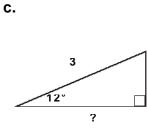
3. When machining parts, if an individual knows an angle and one side, the length of the remaining sides can be determined using basic calculations. Likewise, if an individual knows two sides of a triangle, they can determine the correct angle that needs to be formed using basic calculations. Find the unknown quantity of the following right triangles

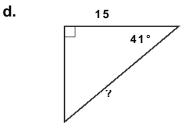
b.

f.



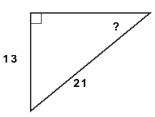


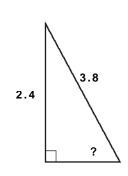


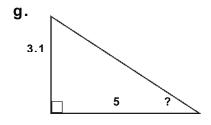




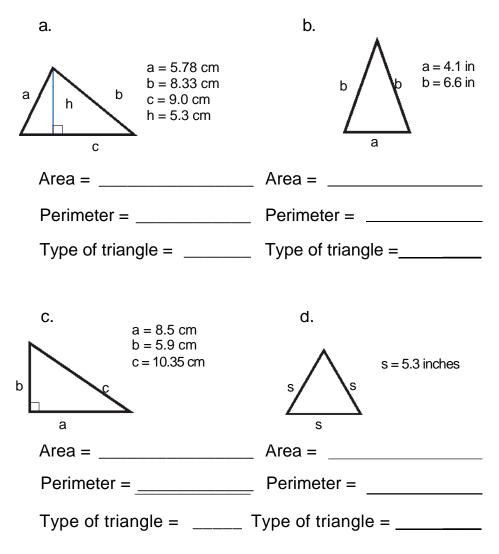
a.



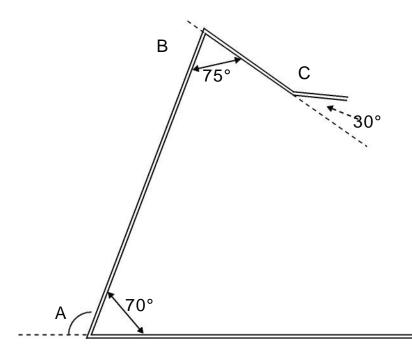




4. Calculate the area and perimeter of the following triangles. Also identify the type of triangle.



5. You must bend a bar of metal for a customer. The engineering department gives a set of prints, but the information on them is not complete.



- a. What is the angle of A?
- b. What is the angle of B?
- c. What is the angle of C?

Image Resource: Images developed by S. Grudzinski.



Unless otherwise noted, this work by the *Project IMPACT* Nebraska Community College Consortium is licensed under the Creative Commons Attribution 4.0 International License. To view a copy of this license, visit <u>http://creativecommons.org/licenses/by/4.0/.</u>

This product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.